

Application No. 10/655,162
December 4, 2006

AMENDMENTS TO THE CLAIMS

1-20. (Cancelled)

21. (Currently Amended) A process for producing a resin, comprising
reacting rosin with a terpene-phenol resin in the presence of a
Bronsted acid, wherein the rosin is at least one member selected from the
group consisting of wood rosin, tall oil rosin, and gum rosin and wherein
the produced resin has a softening point of from 115 to 150°C, an acid
number from 10 to 85, a Mw of from 550 to 1400, a Mn of from 405 to
750, and a neat Gardner color of from 6 to 12 ~~rosin and terpene-phenol~~
~~are reacted together in a rosin:terpene-phenol weight ratio that is about~~
~~50:50 or greater.~~

22. (Previously Presented) The process according to Claim 21, wherein
the terpene-phenol resin has a softening point of from 125 to 150 °C.

23. (Currently Amended) The process according to Claim 21, wherein the
rosin and terpene-phenol are reacted together in a rosin:terpene-phenol
weight ratio of from about 50:50 40:60 to 60:40.

24. (Previously Presented) The process according to Claim 21, wherein
the rosin and terpene-phenol are reacted together in a rosin:terpene-
phenol weight ratio of about 50:50.

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- 25.(Previously Presented) The process according to Claim 21, wherein the Bronsted acid is sulfonic acid, sulfuric acid, or mixtures thereof.
- 26.(Previously Presented) The process according to Claim 21, wherein the Bronsted acid is para-toluene sulfonic acid, sulfonic acid, sulfuric acid, or mixtures thereof.
- 27.(Previously Presented) The process according to Claim 21, wherein the rosin is wood rosin.
- 28.(Previously Presented) The process according to Claim 21, wherein the rosin is tall oil rosin.
- 29.(Previously Presented) The process according to Claim 21, wherein the rosin is gum rosin.
- 30.(Previously Presented) The process according to Claim 21, wherein the rosin is Chinese gum rosin.
- 31.(Currently Amended) A resin produced by the process according to Claim 21, wherein rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio that is about 50:50 to 60:40 the ~~resin has a softening point of from 115 to 150°C.~~
- 32.(Currently Amended) A resin produced by the process according to Claim 21, wherein rosin and terpene-phenol are reacted together in a

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rosin:terpene-phenol weight ratio that is about 60:40 to 50:50 the

~~resin has an acid number of from 10 to 85.~~

33.(Cancelled).

34.(Cancelled)

35.(Cancelled)

36.(Previously Presented) A resin produced by the process according to
Claim 21, wherein the resin has an acid number of from 10 to 50.

37.(Currently Amended) A process for producing a resin, comprising

reacting at least one terpene with at least one phenolic compound
to form a terpene-phenol resin; and then

reacting rosin with the terpene-phenol resin in the presence of a
Bronsted acid, wherein the rosin is at least one member selected from the
group consisting of wood rosin, tall oil rosin, and gum rosin and wherein
the produced resin has a softening point of from 115 to 150°C, an acid
number from 10 to 85, a Mw of from 550 to 1400, a Mn of from 405 to
750, and a neat Gardner color of from 6 to 12 ~~rosin and terpene-phenol
are reacted together in a rosin:terpene-phenol weight ratio that is about
50:50 or greater.~~

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38.(Previously Presented) The process according to Claim 37, wherein
the terpene is selected from the group consisting of limonene,
dipentene, α -pinene, β -pinene, and δ -3-carene.

39.(Previously Presented) A resin produced by the process according to
Claim 37.

40.(Currently Amended) A process for producing a resin, the process
comprising

reacting rosin with a terpene-phenol resin in the presence of a Bronsted
acid, wherein the produced resin has a softening point of from 115 to 150°C, an
acid number from 10 to 85, a Mw of from 550 to 1400, a Mn of from 405 to
750, and a neat Gardner color of from 6 to 12 ~~rosin and terpene-phenol are
reacted together in a rosin:terpene-phenol weight ratio that is about 50:50 or
greater.~~

41. (Previously Presented) A resin produced by the process according to
Claim 40.

42.(New) The process according to Claim 40, wherein the rosin and
terpene-phenol are reacted together in a rosin:terpene-phenol weight
ratio of from about 40:60 to 60:40.

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43.(New) The process according to Claim 40, wherein the rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio of about 50:50.

44.(New) A resin produced by the process according to Claim 40, wherein rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio that is about 60:40 to 50:50.